

CLAIMS

1. (Currently amended) A electronic device, comprising:
 - a base portion;
 - a movable portion having an edge nearest the base portion; ~~and~~
 - a hinge mechanism that enables the edge of the movable portion nearest the base portion to translate in relation to the base portion as the movable portion is rotated during opening of the electronic device; and
 - a friction inducing device that resists relative motion of the base and movable portions, the friction inducing device being one of a) a wrap spring friction clutch and b) a lobed shaft rotating in a compliant collar.
2. (Original) The electronic device of claim 1 wherein the electronic device is a portable computer.
3. (Original) The electronic device of claim 1 wherein the electronic device is a personal digital assistant.
4. (Original) The electronic device of claim 1 wherein the device is a dedicated word processor.
5. (Original) The electronic device of claim 1 wherein the device is a viewer for a Digital Versatile Disc.
6. (Currently amended) An electronic device, comprising:
 - a base portion
 - a groove formed in the base portion;
 - a movable portion having a guiding feature that engages the groove; ~~and~~
 - a link having a first link end attached to a first pivot on the base portion, and having a second link end attached to a second pivot on the moveable portion; and
 - a friction inducing device that resists relative motion of the base and movable portions, the friction inducing device being one of a) a wrap spring friction clutch and b) a lobed shaft rotating in a compliant collar;

and wherein the link constrains the relative motion of the base portion and the movable portion such that the electronic device opens as the guiding feature travels along the groove.

7. (Original) The electronic device of claim 6, wherein the moveable portion comprises a display screen.
8. (Original) The electronic device of claim 6, further comprising:
 - a second groove formed in the base portion;
 - a second guiding feature on the moveable portion engaging the second groove;
 - and
 - a second link connecting pivots on the base portion and the movable portion.
9. (Cancelled)
10. (Cancelled)
11. (Currently amended) The electronic device of claim ~~[[9]]~~ 6, further comprising:
 - a shaft journaled in the moveable portion, one end of the shaft being the guiding feature;
 - a gear fixedly attached to the shaft; and
 - a gear rack formed in the base portion such that the gear engages the gear rack when the guiding feature engages the groove.
12. (Original) The electronic device of claim 11, further comprising a spring wrapped around the shaft and constrained such that the spring does not rotate in relation to the moveable portion when the shaft rotates.
13. (Currently amended) The electronic device of claim ~~[[9]]~~ 6 wherein the friction-inducing device holds the ~~fixed~~ base and moveable portions in a relationship set by a user of the electronic device, and enables adjustability of the relationship.
14. (Original) The electronic device of claim 6 wherein the electronic device is a portable computer.

15. (Original) The electronic device of claim 6 wherein the electronic device is a dedicated word processor.
16. (Original) The electronic device of claim 6 wherein the electronic device is a personal digital assistant.
17. (Original) The electronic device of claim 6 wherein the electronic device is a viewer for a Digital Versatile Disc.
18. (Currently amended) An electronic device, comprising:
means for translating an edge of a moveable portion of the electronic device in relation to a base portion of the electronic device as the moveable portion is rotated in the process of opening the electronic device; and
means for inducing friction that resists relative motion of the movable and base portion;
and wherein the means for inducing friction is one of a) a wrap spring friction clutch and b) a lobed shaft rotating in a compliant collar.
19. (Currently amended) A hinge mechanism for an electronic device, comprising:
a groove in a first portion of the electronic device;
a guiding feature on a second portion of the electronic device, the guiding feature engaging the groove;
a link connecting a first pivot on the first portion of the electronic device with a second pivot on the second portion of the electronic device and
constraining the relative motion of the first and second portions such that the electronic device opens as the guiding feature travels along the groove;
and
a friction inducing device that resists relative motion of the base and movable portions, the friction inducing device being one of a) a wrap spring friction clutch and b) a lobed shaft rotating in a compliant collar.
20. (Cancelled)

21. (Cancelled)

22. (Original) The hinge mechanism of claim 19, further comprising:

- a gear rack formed in the first portion of the electronic device;
- a gear attached to the second portion coaxial with the guiding feature, the gear engaging the gear rack when the guiding feature engages the groove; and
- a shaft fixedly attached to the gear and journaled in the second portion of the electronic device.

23. (Original) The hinge mechanism of claim 22, further comprising a spring wrapped around the shaft such that friction between the spring and shaft resists rotation of the shaft.